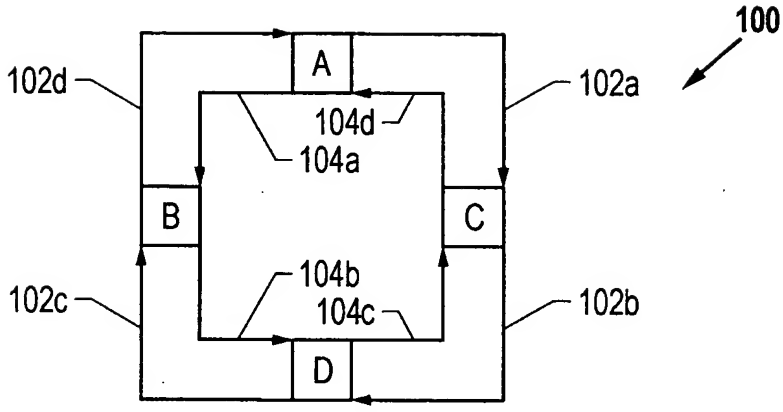

FIG. 1

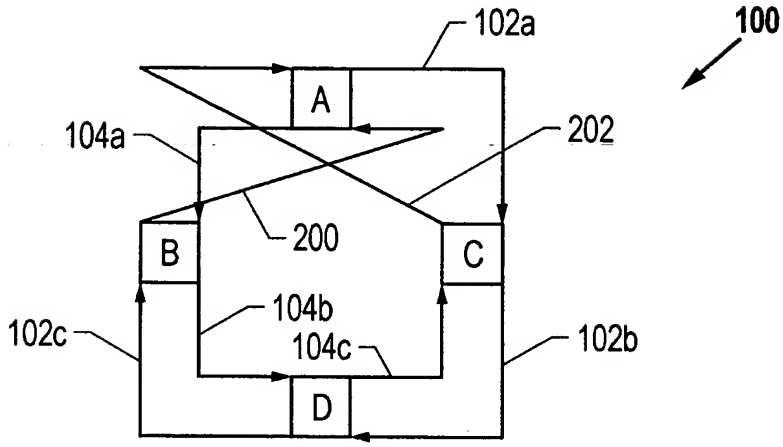

FIG. 2A

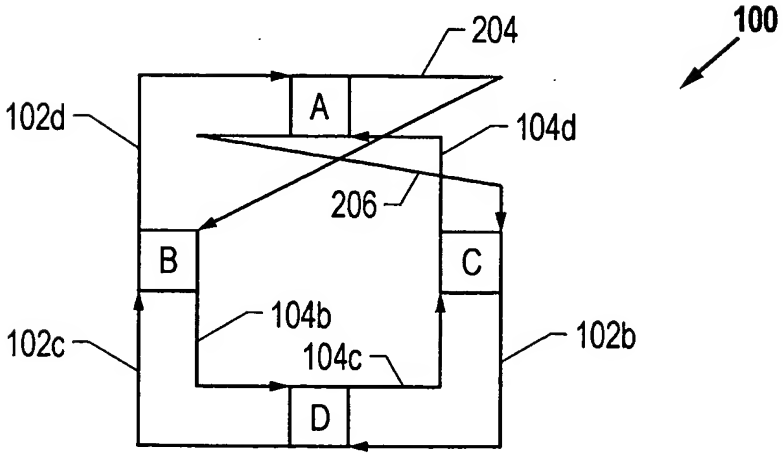

FIG. 2B

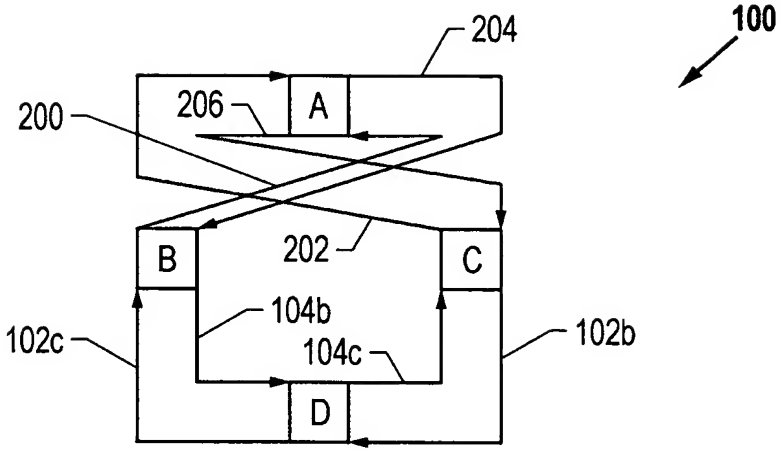

FIG. 2C

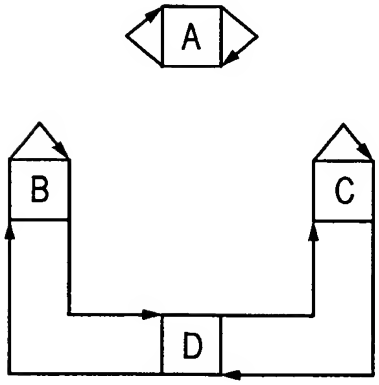

FIG. 3

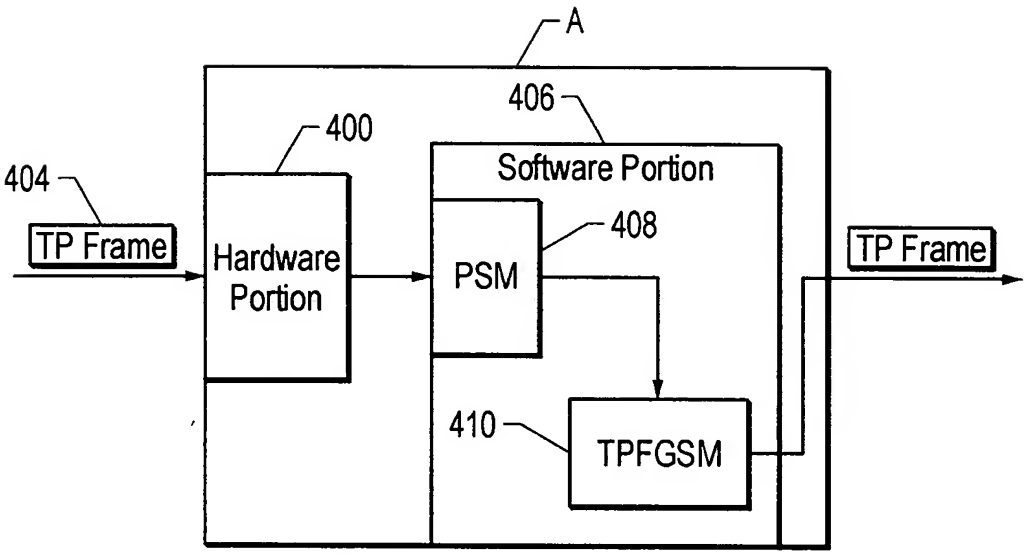
A
406
400
Software Portion
404
TP Frame
Hardware Portion
PSM
408
TP Frame
410
TPFGSM

FIG. 4

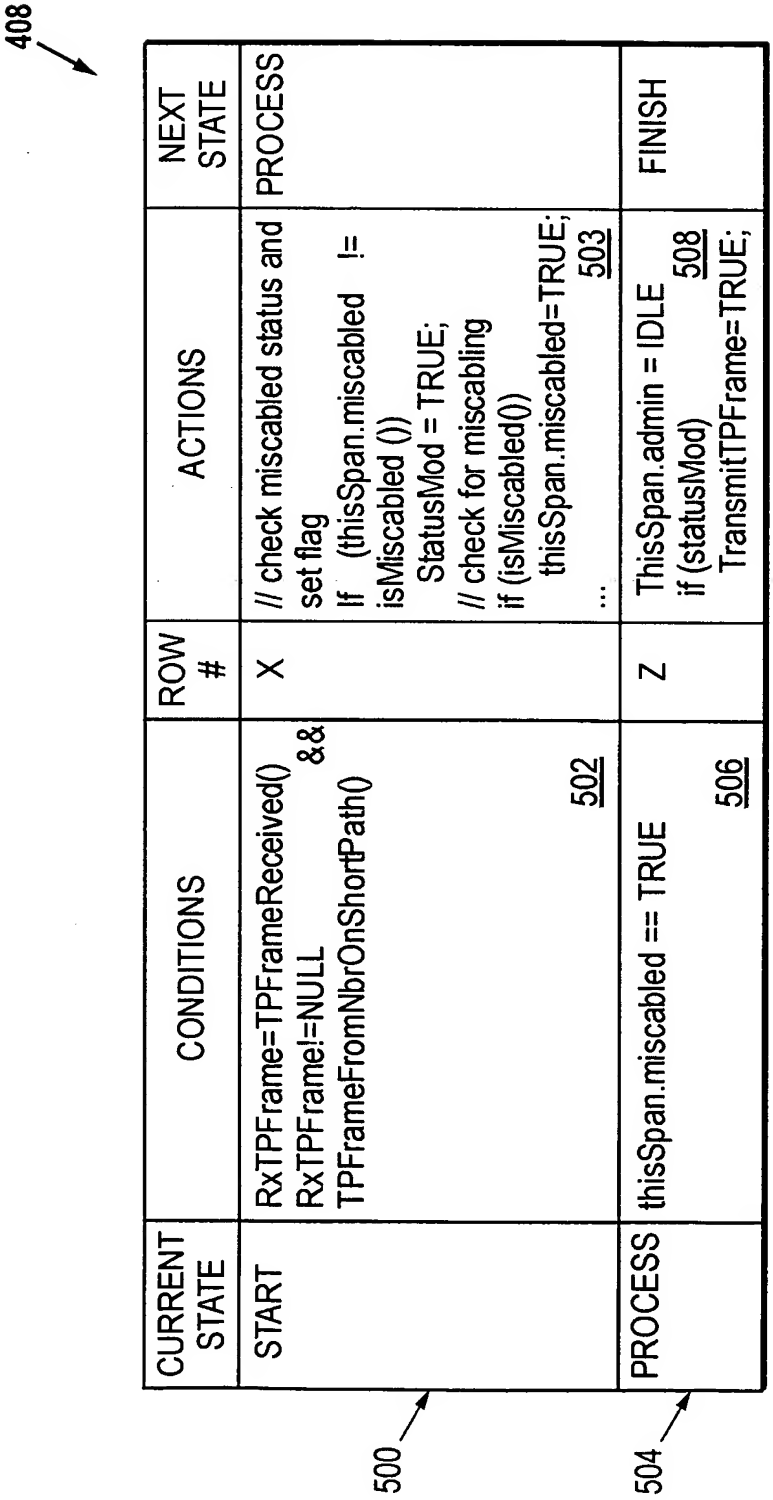
408
CURRENT STATE
CONDITIONS
ROW #
ACTIONS
NEXT STATE
START
RxTPFrame=TPFrameReceived() &&
RxTPFrame!=NULL &&
TPFrameFromNbrOnShortPath()
502
X
// check miscabled status and set flag
If (thisSpan.miscabled != isMiscabled ())
StatusMod = TRUE;
// check for miscabling
if (isMiscabled())
thisSpan.miscabled=TRUE;
...
503
PROCESS
500
PROCESS
thisSpan.miscabled == TRUE
506
Z
ThisSpan.admin = IDLE
508
if (statusMod)
TransmitTPFrame=TRUE;
FINISH
504

FIG. 5

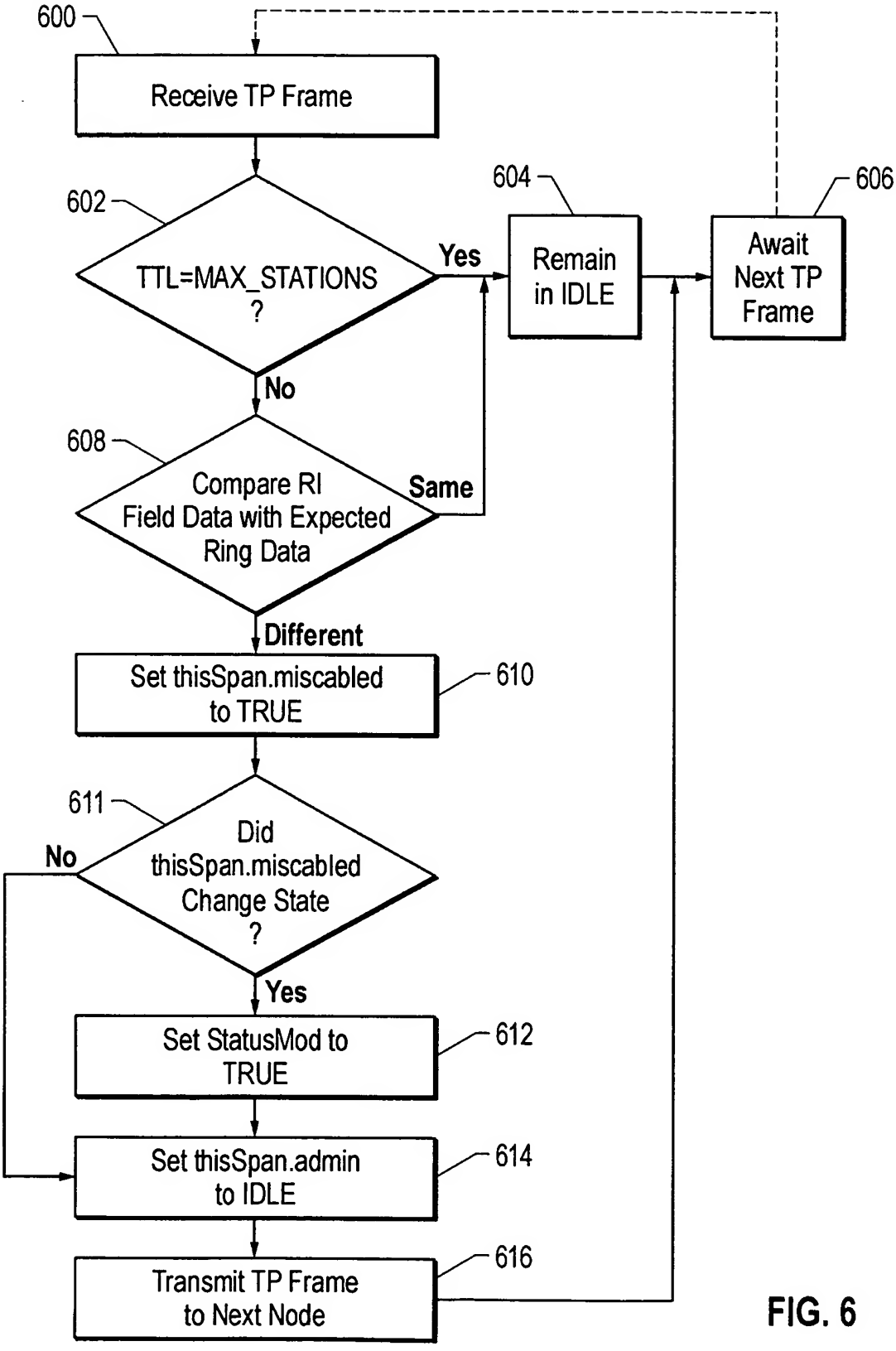
600
Receive TP Frame
602
TTL=MAX_STATIONS ?
Yes
604
Remain in IDLE
606
Await Next TP Frame
No
608
Compare RI Field Data with Expected Ring Data
Same
Different
Set thisSpan.miscabled to TRUE
610
611
Did thisSpan.miscabled Change State ?
No
Yes
Set StatusMod to TRUE
612
Set thisSpan.admin to IDLE
614
Transmit TP Frame to Next Node
616

FIG. 6